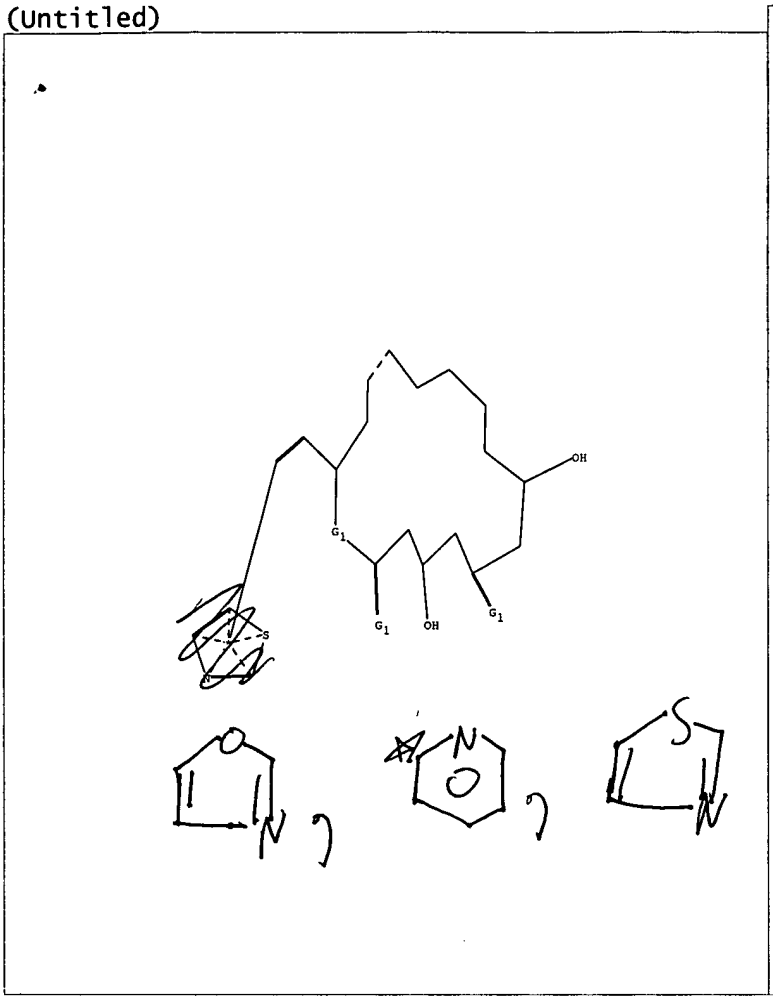
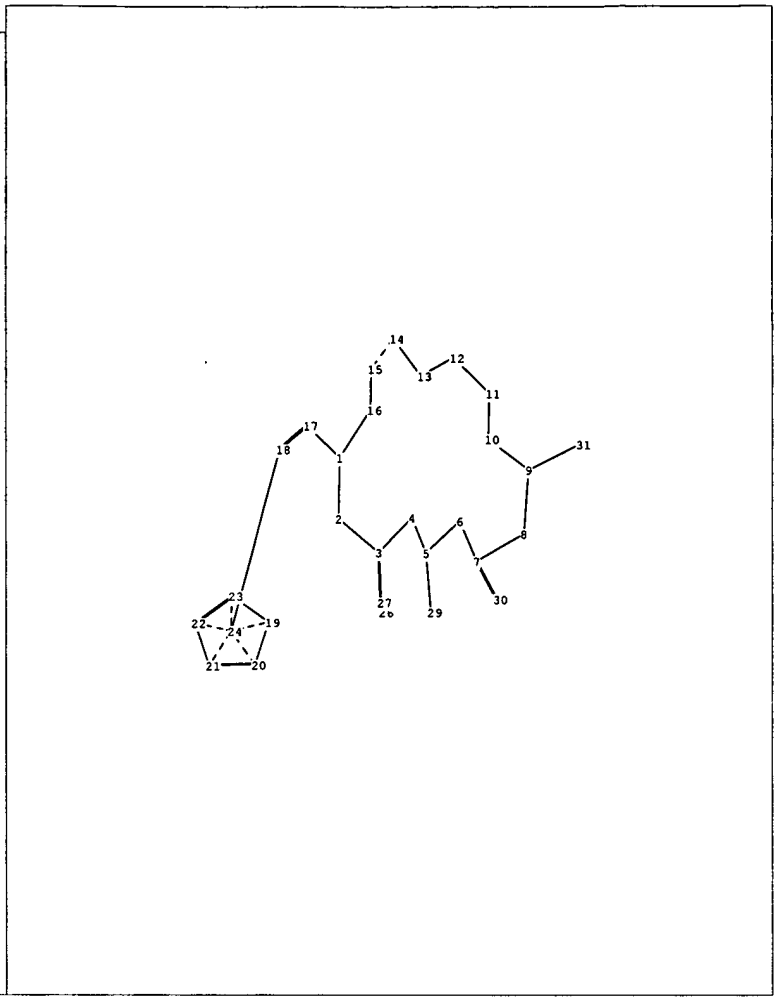
(Untitled)




chain nodes :
17 18 26 27 29 30 31
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 19 20 21 22 23
chain bonds :
1-17 3-27 5-29 7-30 9-31 17-18
ring bonds :
1-2 1-16 2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12 12-13 13-14 14-15
15-16 19-20 19-23 20-21 21-22 22-23
exact/norm bonds :
1-2 1-16 1-17 2-3 3-4 3-27 4-5 5-6 5-29 6-7 7-8 7-30 8-9 9-10 9-31 10-11
11-12 12-13 13-14 14-15 15-16 17-18 19-20 19-23 20-21 21-22 22-23
isolated ring systems :
containing 1 : 19 :

G1:O,S

Match level :
1:Atom 2:CLASS 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS 18:CLASS 19:Atom 20:Atom
21:Atom 22:Atom 23:Atom 24:CLASS 26:CLASS 27:CLASS 29:CLASS 30:CLASS 31:CLASS

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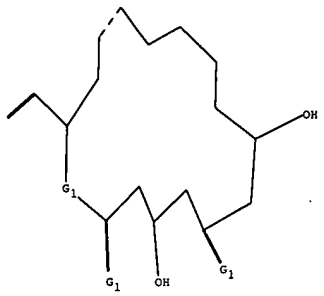


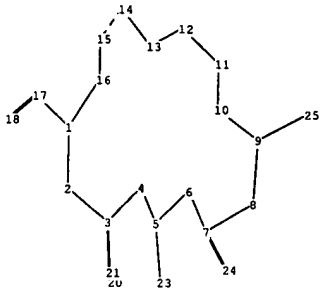


chain nodes :
17 18 20 21 23 24 25
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
chain bonds :
1-17 3-21 5-23 7-24 9-25 17-18
ring bonds :
1-2 1-16 2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12 12-13 13-14 14-15
15-16
exact/norm bonds :
1-2 1-16 1-17 2-3 3-4 3-21 4-5 5-6 5-23 6-7 7-8 7-24 8-9 9-10 9-25 10-11
11-12 12-13 13-14 14-15 15-16 17-18
isolated ring systems :
containing 1 :

G1:O,S

Match level :
1:Atom 2:CLASS 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS 18:CLASS 20:CLASS 21:CLASS
23:CLASS 24:CLASS 25:CLASS

```
* * * * * * * * * *  Welcome to STN International  * * * * * * * * * *

NEWS  1          Web Page URLs for STN Seminar Schedule - N. America
NEWS  2  Apr 08  "Ask CAS" for self-help around the clock
NEWS  3  Apr 09  BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS  4  Apr 09  ZDB will be removed from STN
NEWS  5  Apr 19  US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS  6  Apr 22  Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS  7  Apr 22  BIOSIS Gene Names now available in TOXCENTER
NEWS  8  Apr 22  Federal Research in Progress (FEDRIP) now available
NEWS  9  Jun 03  New e-mail delivery for search results now available
NEWS 10  Jun 10  MEDLINE Reload
NEWS 11  Jun 10  PCTFULL has been reloaded
NEWS 12  Jul 02  FOREGE no longer contains STANDARDS file segment
NEWS 13  Jul 22  USAN to be reloaded July 28, 2002;
                 saved answer sets no longer valid
NEWS 14  Jul 29  Enhanced polymer searching in REGISTRY
NEWS 15  Jul 30  NETFIRST to be removed from STN
NEWS 16  Aug 08  CANCERLIT reload
NEWS 17  Aug 08  PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18  Aug 08  NTIS has been reloaded and enhanced
NEWS 19  Aug 19  Aquatic Toxicity Information Retrieval (AQUIRE)
                 now available on STN
NEWS 20  Aug 19  IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21  Aug 19  The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22  Aug 26  Sequence searching in REGISTRY enhanced
NEWS 23  Sep 03  JAPIO has been reloaded and enhanced

NEWS EXPRESS  February 1 CURRENT WINDOWS VERSION IS V6.0d,
              CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),
              AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
NEWS HOURS    STN Operating Hours Plus Help Desk Availability
NEWS INTER    General Internet Information
NEWS LOGIN    Welcome Banner and News Items
NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
NEWS WWW      CAS World Wide Web Site (general information)

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  * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * *



FILE 'HOME' ENTERED AT 22:58:00 ON 08 SEP 2002

=> file reg
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                 0.21       0.21

FILE 'REGISTRY' ENTERED AT 22:58:14 ON 08 SEP 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2002 American Chemical Society (ACS)

STRUCTURE FILE UPDATES:    6 SEP 2002  HIGHEST RN 447682-31-7
DICTIONARY FILE UPDATES:   6 SEP 2002  HIGHEST RN 447682-31-7
```

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

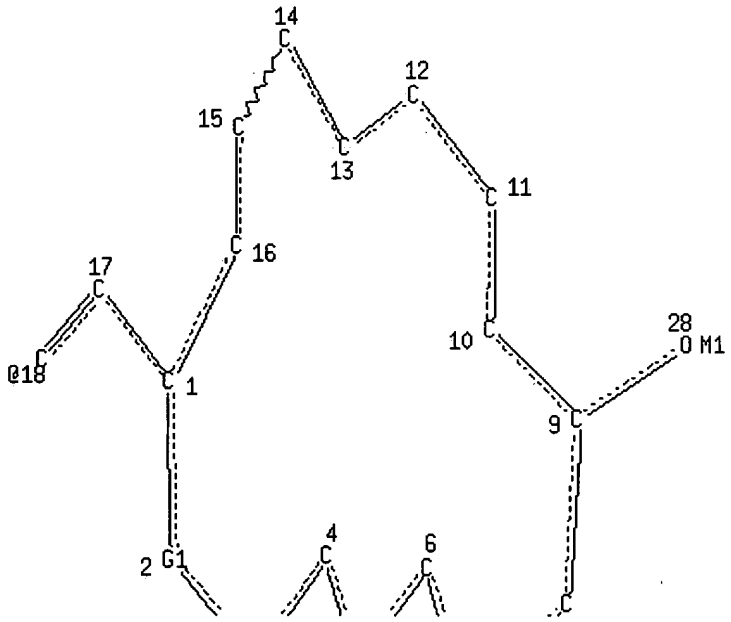
Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR

0 29 S 30

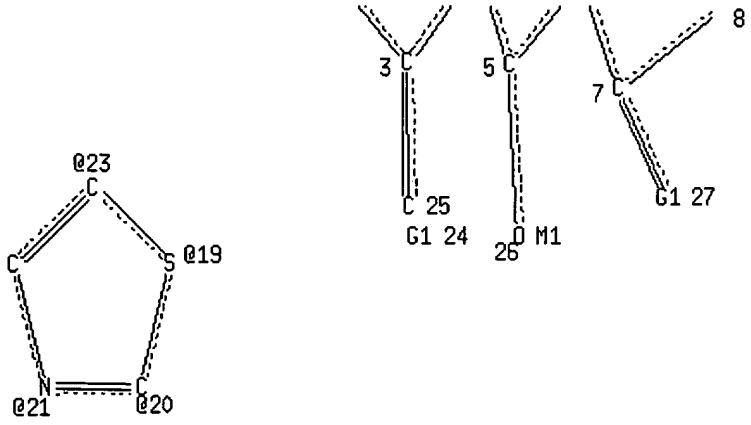
Page 1-A




Page 1-B

@22

Page 2-A



```
Page 2-B
VAR G1=29/30
VPA 18-19/20/21/22/23 S
NODE ATTRIBUTES:
HCOUNT  IS M1     AT  26
HCOUNT  IS M1     AT  28
NSPEC   IS R      AT   1
NSPEC   IS R      AT   2
NSPEC   IS R      AT   3
NSPEC   IS R      AT   4
NSPEC   IS R      AT   5
NSPEC   IS R      AT   6
NSPEC   IS R      AT   7
NSPEC   IS R      AT   8
NSPEC   IS R      AT   9
NSPEC   IS R      AT  10
NSPEC   IS R      AT  11
NSPEC   IS R      AT  12
NSPEC   IS R      AT  13
NSPEC   IS R      AT  14
NSPEC   IS R      AT  15
NSPEC   IS R      AT  16
NSPEC   IS C      AT  17
NSPEC   IS C      AT  18
NSPEC   IS R      AT  19
NSPEC   IS R      AT  20
NSPEC   IS R      AT  21
NSPEC   IS R      AT  22
NSPEC   IS R      AT  23
NSPEC   IS C      AT  24
NSPEC   IS C      AT  25
NSPEC   IS C      AT  26
NSPEC   IS C      AT  27
NSPEC   IS C      AT  28
DEFAULT MLEVEL IS ATOM
MLEVEL  IS CLASS  AT  17 18 25 26 28 29 30
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS  30

STEREO ATTRIBUTES: NONE


=> s l1
SAMPLE SEARCH INITIATED 23:04:05 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      7 TO ITERATE

100.0% PROCESSED       7 ITERATIONS                              0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:            7 TO      298
PROJECTED ANSWERS:               0 TO        0

L2            0 SEA SSS SAM L1

=> s l1 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 139.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 23:04:20 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    134 TO ITERATE
```

100.0% PROCESSED 134 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

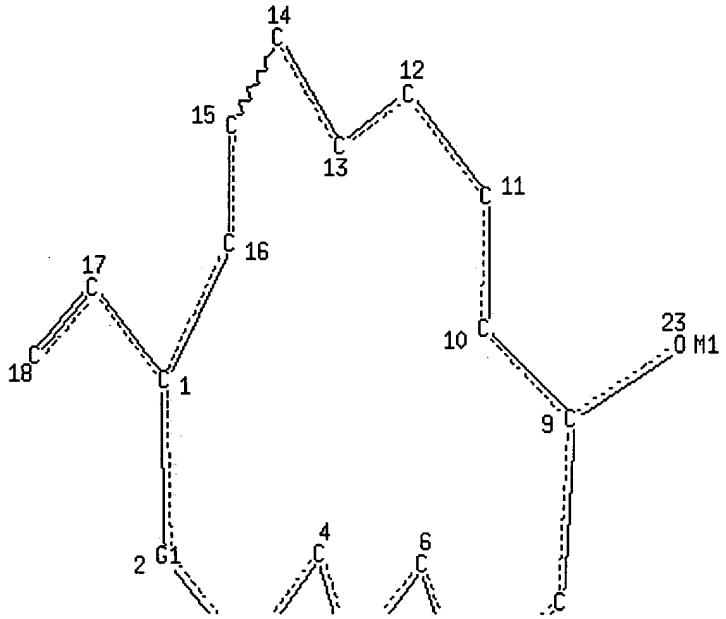
L3 0 SEA SSS FUL L1

=>
L4 STRUCTURE UPLOADED

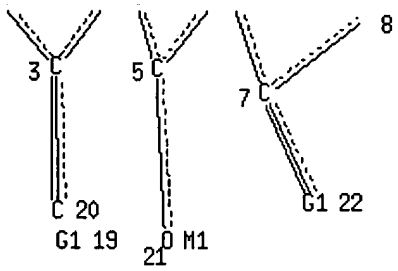
=> d 14
L4 HAS NO ANSWERS
L4 STR

0 24 S 25

Page 1-A




Page 1-B




Page 2-B
VAR G1=24/25
NODE ATTRIBUTES:

| | | | |
|---|---|---|---|
| HCOUNT | IS M1 | AT | 21 |
| HCOUNT | IS M1 | AT | 23 |
| NSPEC | IS R | AT | 1 |
| NSPEC | IS R | AT | 2 |
| NSPEC | IS R | AT | 3 |
| NSPEC | IS R | AT | 4 |
| NSPEC | IS R | AT | 5 |
| NSPEC | IS R | AT | 6 |
| NSPEC | IS R | AT | 7 |
| NSPEC | IS R | AT | 8 |
| NSPEC | IS R | AT | 9 |
| NSPEC | IS R | AT | 10 |
| NSPEC | IS R | AT | 11 |
| NSPEC | IS R | AT | 12 |

```
NSPEC   IS R      AT  13
NSPEC   IS R      AT  14
NSPEC   IS R      AT  15
NSPEC   IS R      AT  16
NSPEC   IS C      AT  17
NSPEC   IS C      AT  18
NSPEC   IS C      AT  19
NSPEC   IS C      AT  20
NSPEC   IS C      AT  21
NSPEC   IS C      AT  22
NSPEC   IS C      AT  23
DEFAULT MLEVEL IS ATOM
MLEVEL  IS CLASS  AT  17 18 20 21 23 24 25
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS  25

STEREO ATTRIBUTES: NONE


=> s l4
SAMPLE SEARCH INITIATED 23:05:53 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   1165 TO ITERATE

 85.8% PROCESSED    1000 ITERATIONS                                0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        21253 TO    25347
PROJECTED ANSWERS:               0 TO        0

L5            0 SEA SSS SAM L4

=> s l4 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 139.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 23:06:05 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -  22717 TO ITERATE

100.0% PROCESSED   22717 ITERATIONS                               0 ANSWERS
SEARCH TIME: 00.00.01

L6            0 SEA SSS FUL L4

=>
```

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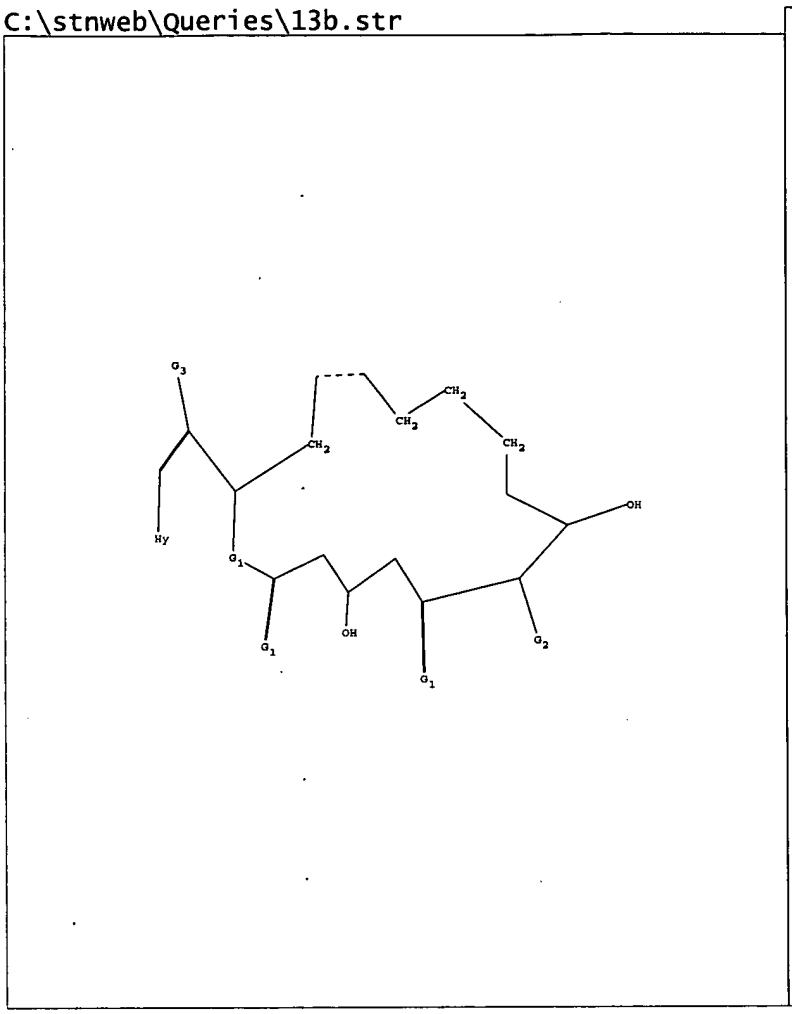


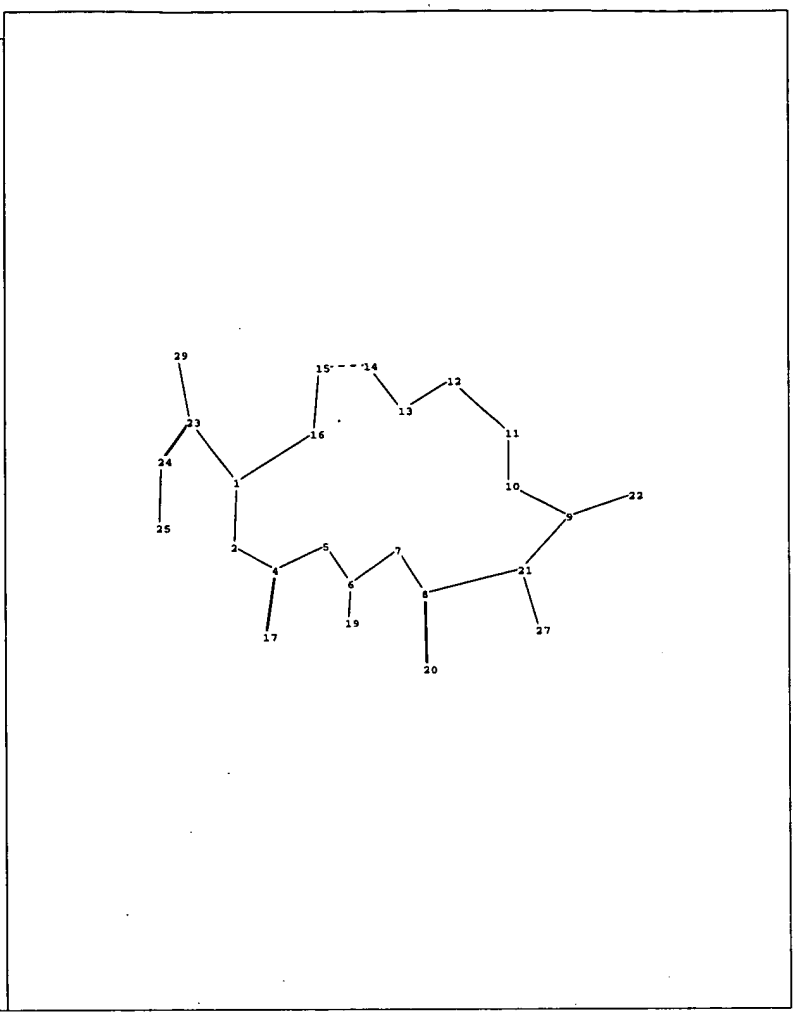


chain nodes :
17 19 20 22 23 24 25 27 29
ring nodes :
1 2 4 5 6 7 8 9 10 11 12 13 14 15 16 21
chain bonds :
1-23 4-17 6-19 8-20 9-22 21-27 23-24 23-29 24-25
ring bonds :
1-2 1-16 2-4 4-5 5-6 6-7 7-8 8-21 9-10 9-21 10-11 11-12 12-13 13-14 14-15
15-16
exact/norm bonds :
1-2 1-16 1-23 2-4 4-5 4-17 5-6 6-7 6-19 7-8 8-20 8-21 9-10 9-21 9-22 10-11
11-12 12-13 13-14 14-15 15-16 21-27 23-24 23-29 24-25

G1:O,S

G2:CH3,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu

G3:H,Ak

Match level :
1:Atom 2:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom
13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 19:CLASS 20:Atom 21:Atom 22:CLASS 23:CLASS
24:CLASS 25:Atom 27:CLASS 29:CLASS

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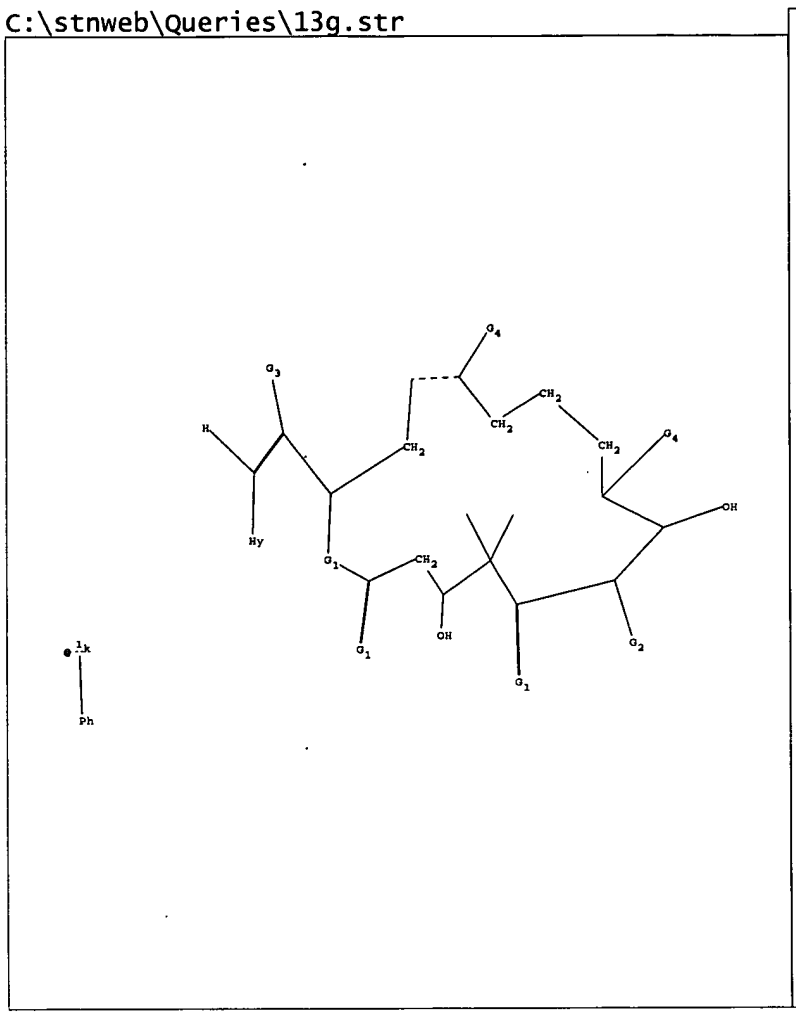

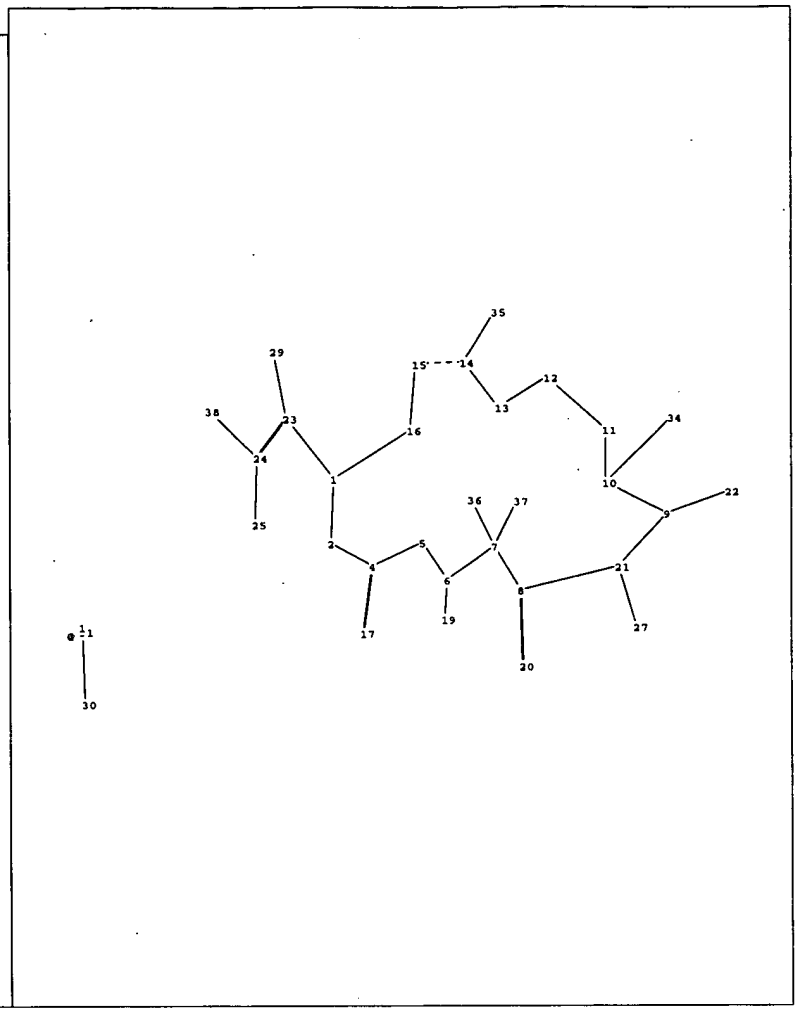

chain nodes :
17 19 20 22 23 24 25 27 29 30 31 34 35 36 37 38
ring nodes :
1 2 4 5 6 7 8 9 10 11 12 13 14 15 16 21
chain bonds :
1-23 4-17 6-19 7-37 7-36 8-20 9-22 10-34 14-35 21-27 23-24 23-29 24-25 24-38
30-31
ring bonds :
1-2 1-16 2-4 4-5 5-6 6-7 7-8 8-21 9-10 9-21 10-11 11-12 12-13 13-14 14-15
15-16
exact/norm bonds :
1-2 1-16 1-23 2-4 4-5 4-17 5-6 6-7 6-19 7-8 7-37 7-36 8-20 8-21 9-10 9-21
9-22 10-11 10-34 11-12 12-13 13-14 14-15 14-35 15-16 21-27 23-24 23-29 24-25
24-38 30-31

G1:O,S

G2:CH3,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu

G3:H,Ak

G4:Ph,Ak,H,[*1]

Match level :
1:Atom 2:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom
13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 19:CLASS 20:Atom 21:Atom 22:CLASS 23:CLASS
24:CLASS 25:Atom 27:CLASS 29:CLASS 30:CLASS 31:CLASS 34:CLASS 35:CLASS 36:CLASS
37:CLASS 38:CLASS

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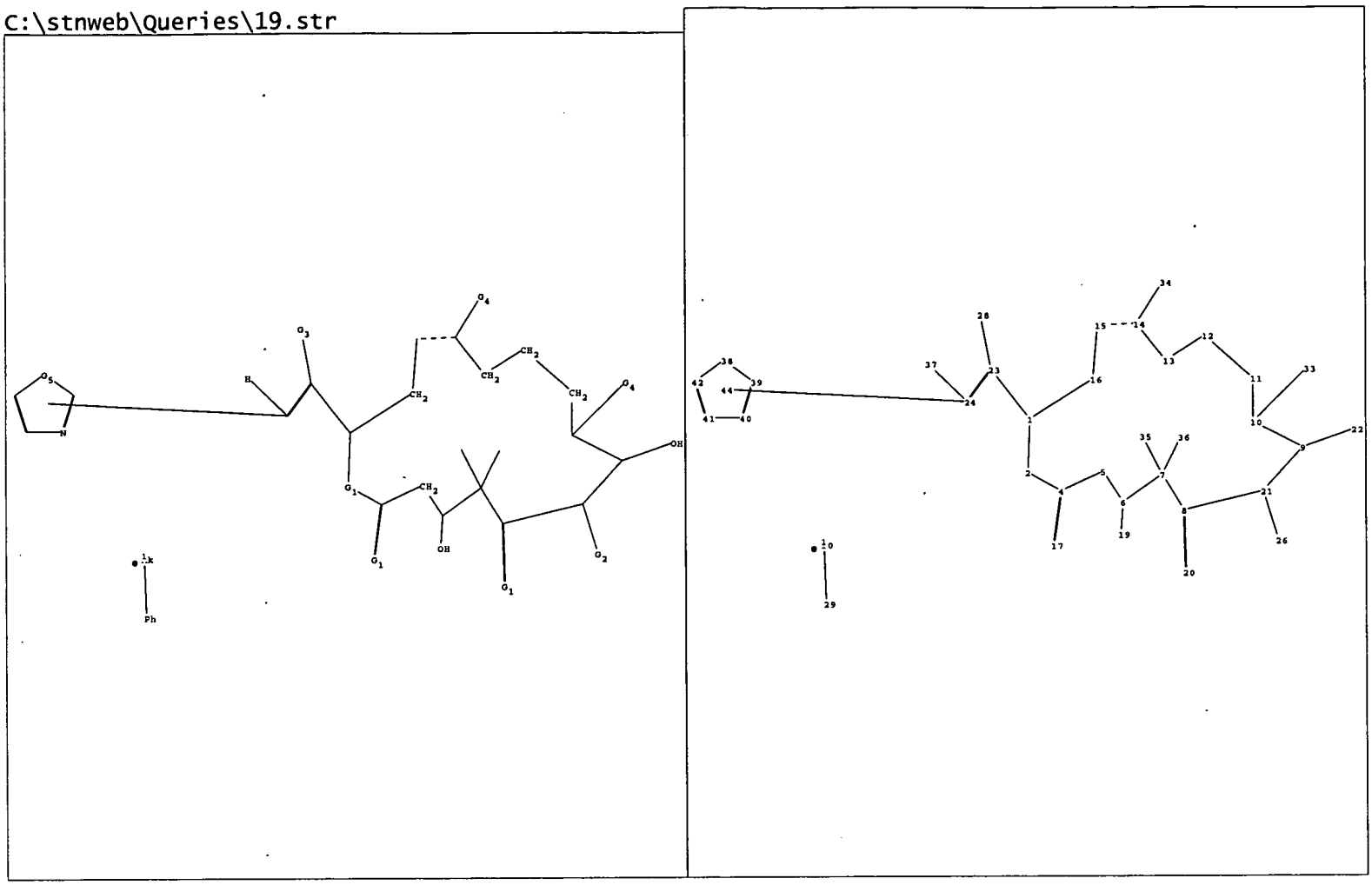

chain nodes :
17 19 20 22 23 24 26 28 29 30 33 34 35 36 37
ring nodes :
1 2 4 5 6 7 8 9 10 11 12 13 14 15 16 21 38 39 40 41 42
chain bonds :
1-23 4-17 6-19 7-36 7-35 8-20 9-22 10-33 14-34 21-26 23-24 23-28 24-37 29-30
ring bonds :
1-2 1-16 2-4 4-5 5-6 6-7 7-8 8-21 9-10 9-21 10-11 11-12 12-13 13-14 14-15
15-16 38-39 38-42 39-40 40-41 41-42
exact/norm bonds :
1-2 1-16 1-23 2-4 4-5 4-17 5-6 6-7 6-19 7-8 7-36 7-35 8-20 8-21 9-10 9-21
9-22 10-11 10-33 11-12 12-13 13-14 14-15 14-34 15-16 21-26 23-24 23-28 24-37
29-30 38-39 38-42 39-40 40-41 41-42

G1:O,S

G2:CH3,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu

G3:H,Ak

G4:Ph,Ak,H,[*1]

G5:O,S

Match level :
1:Atom 2:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom
13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 19:CLASS 20:Atom 21:Atom 22:CLASS 23:CLASS
24:CLASS 26:CLASS 28:CLASS 29:CLASS 30:CLASS 33:CLASS 34:CLASS 35:CLASS 36:CLASS
37:CLASS 38:CLASS 39:Atom 40:Atom 41:Atom 42:Atom 44:CLASS

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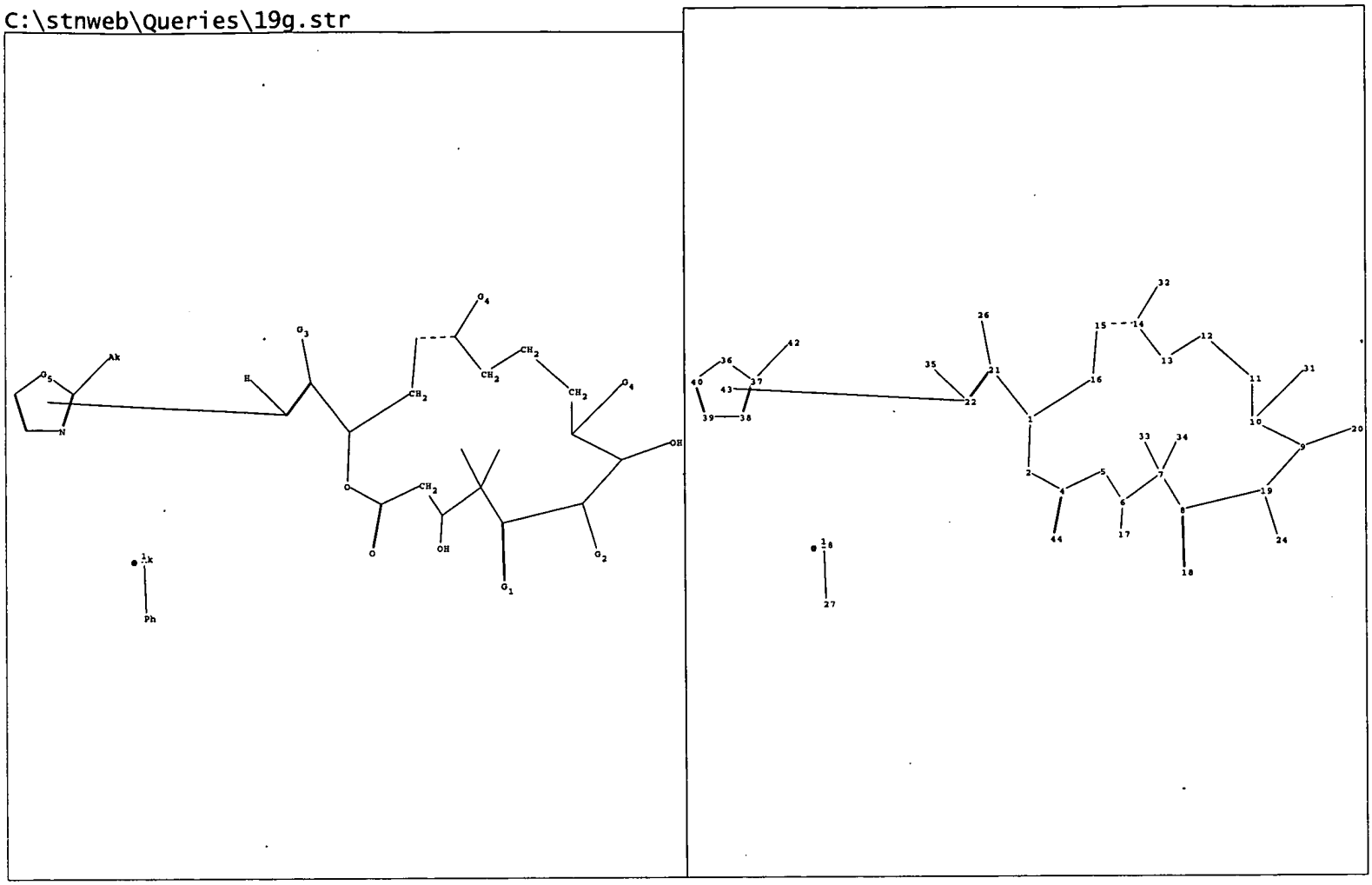

chain nodes :
17 18 20 21 22 24 26 27 28 31 32 33 34 35 42 44
ring nodes :
1 2 4 5 6 7 8 9 10 11 12 13 14 15 16 19 36 37 38 39 40
chain bonds :
1-21 4-44 6-17 7-34 7-33 8-18 9-20 10-31 14-32 19-24 21-22 21-26 22-35 27-28
37-42
ring bonds :
1-2 1-16 2-4 4-5 5-6 6-7 7-8 8-19 9-10 9-19 10-11 11-12 12-13 13-14 14-15
15-16 36-37 36-40 37-38 38-39 39-40
exact/norm bonds :
1-2 1-16 1-21 2-4 4-5 4-44 5-6 6-7 6-17 7-8 7-34 7-33 8-18 8-19 9-10 9-19
9-20 10-11 10-31 11-12 12-13 13-14 14-15 14-32 15-16 19-24 21-22 21-26 22-35
27-28 36-37 36-40 37-38 37-42 38-39 39-40

G1:O,S

G2:CH3,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu

G3:H,Ak

G4:Ph,Ak,H,[*1]

G5:O,S

Match level :
1:Atom 2:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom
13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS 18:Atom 19:Atom 20:CLASS 21:CLASS
22:CLASS 24:CLASS 26:CLASS 27:CLASS 28:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS
35:CLASS 36:CLASS 37:Atom 38:Atom 39:Atom 40:Atom 42:CLASS 43:CLASS 44:CLASS

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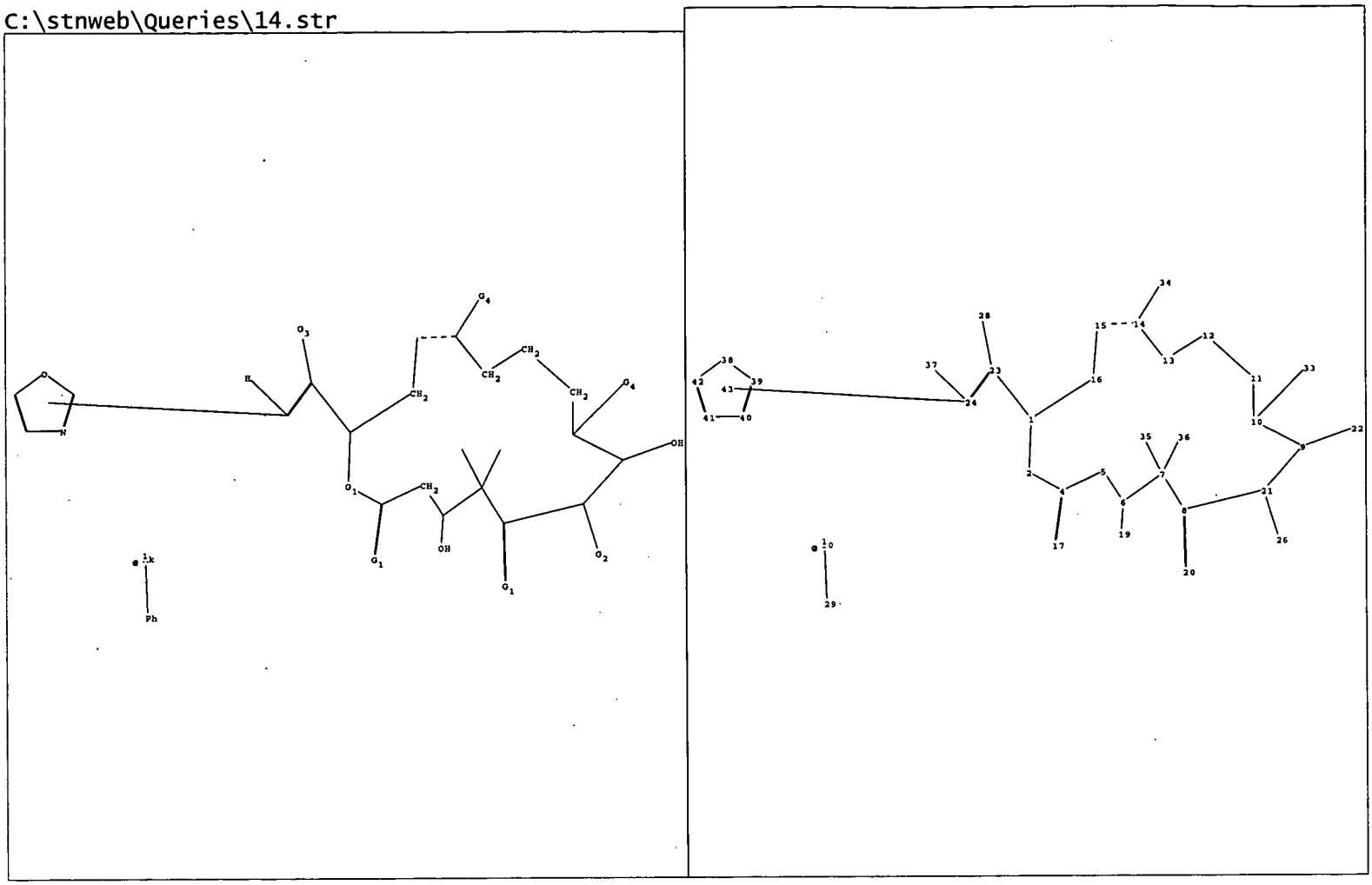

chain nodes :
17 19 20 22 23 24 26 28 29 30 33 34 35 36 37
ring nodes :
1 2 4 5 6 7 8 9 10 11 12 13 14 15 16 21 38 39 40 41 42
chain bonds :
1-23 4-17 6-19 7-36 7-35 8-20 9-22 10-33 14-34 21-26 23-24 23-28 24-37 29-30
ring bonds :
1-2 1-16 2-4 4-5 5-6 6-7 7-8 8-21 9-10 9-21 10-11 11-12 12-13 13-14 14-15
15-16 38-39 38-42 39-40 40-41 41-42
exact/norm bonds :
1-2 1-16 1-23 2-4 4-5 4-17 5-6 6-7 6-19 7-8 7-36 7-35 8-20 8-21 9-10 9-21
9-22 10-11 10-33 11-12 12-13 13-14 14-15 14-34 15-16 21-26 23-24 23-28 24-37
29-30 38-39 38-42 39-40 40-41 41-42

G1:O,S

G2:CH3,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu

G3:H,Ak

G4:Ph,Ak,H,[*1]

Match level :
1:Atom 2:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom
13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 19:CLASS 20:Atom 21:Atom 22:CLASS 23:CLASS
24:CLASS 26:CLASS 28:CLASS 29:CLASS 30:CLASS 33:CLASS 34:CLASS 35:CLASS 36:CLASS
37:CLASS 38:CLASS 39:Atom 40:Atom 41:Atom 42:Atom 43:CLASS

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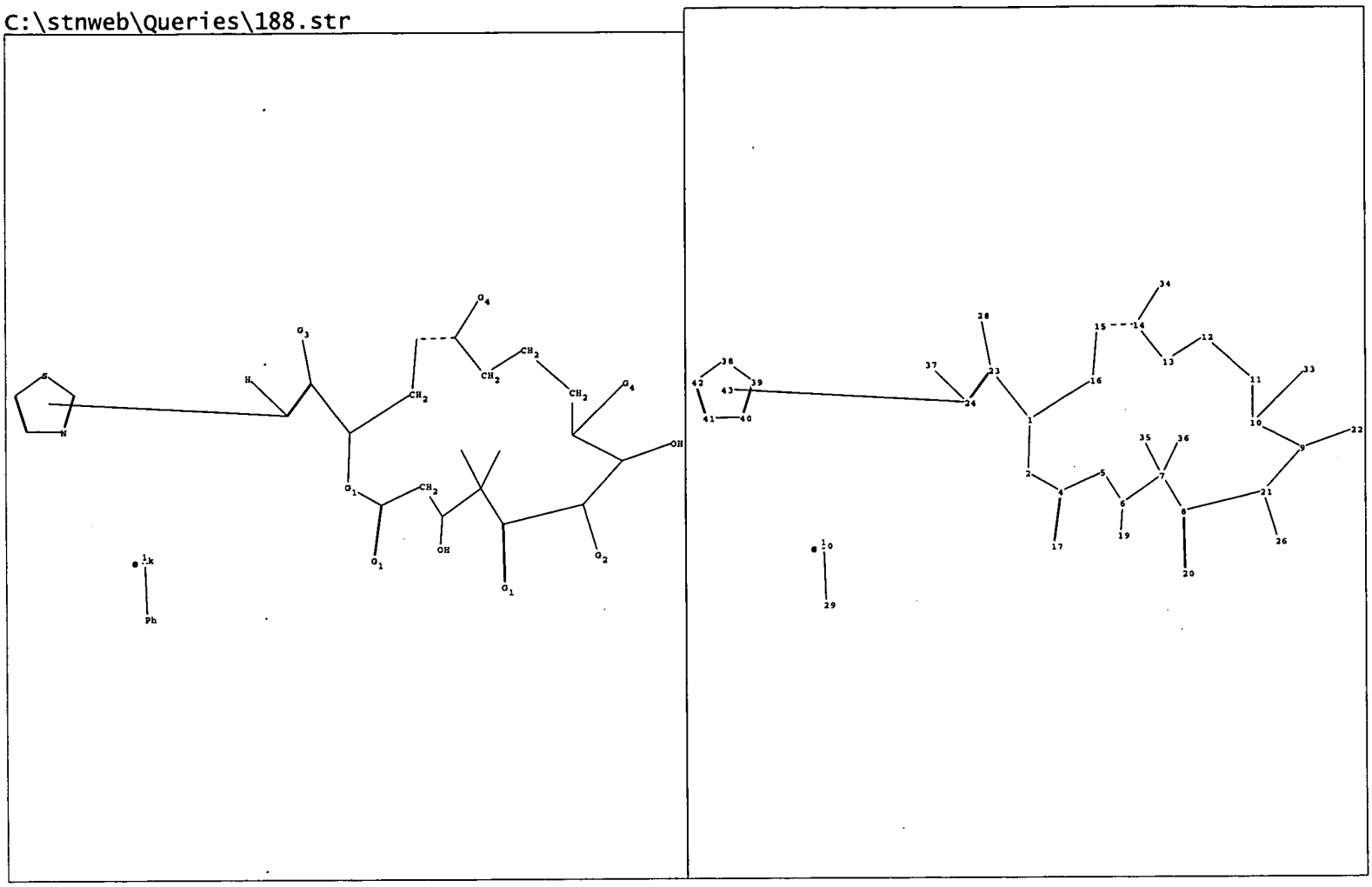

chain nodes :
17 19 20 22 23 24 26 28 29 30 33 34 35 36 37
ring nodes :
1 2 4 5 6 7 8 9 10 11 12 13 14 15 16 21 38 39 40 41 42
chain bonds :
1-23 4-17 6-19 7-36 7-35 8-20 9-22 10-33 14-34 21-26 23-24 23-28 24-37 29-30
ring bonds :
1-2 1-16 2-4 4-5 5-6 6-7 7-8 8-21 9-10 9-21 10-11 11-12 12-13 13-14 14-15
15-16 38-39 38-42 39-40 40-41 41-42
exact/norm bonds :
1-2 1-16 1-23 2-4 4-5 4-17 5-6 6-7 6-19 7-8 7-36 7-35 8-20 8-21 9-10 9-21
9-22 10-11 10-33 11-12 12-13 13-14 14-15 14-34 15-16 21-26 23-24 23-28 24-37
29-30 38-39 38-42 39-40 40-41 41-42

G1:O,S

G2:CH3,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu

G3:H,Ak

G4:Ph,Ak,H,[*1]

Match level :
1:Atom 2:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom
13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 19:CLASS 20:Atom 21:Atom 22:CLASS 23:CLASS
24:CLASS 26:CLASS 28:CLASS 29:CLASS 30:CLASS 33:CLASS 34:CLASS 35:CLASS 36:CLASS
37:CLASS 38:CLASS 39:Atom 40:Atom 41:Atom 42:Atom 43:CLASS

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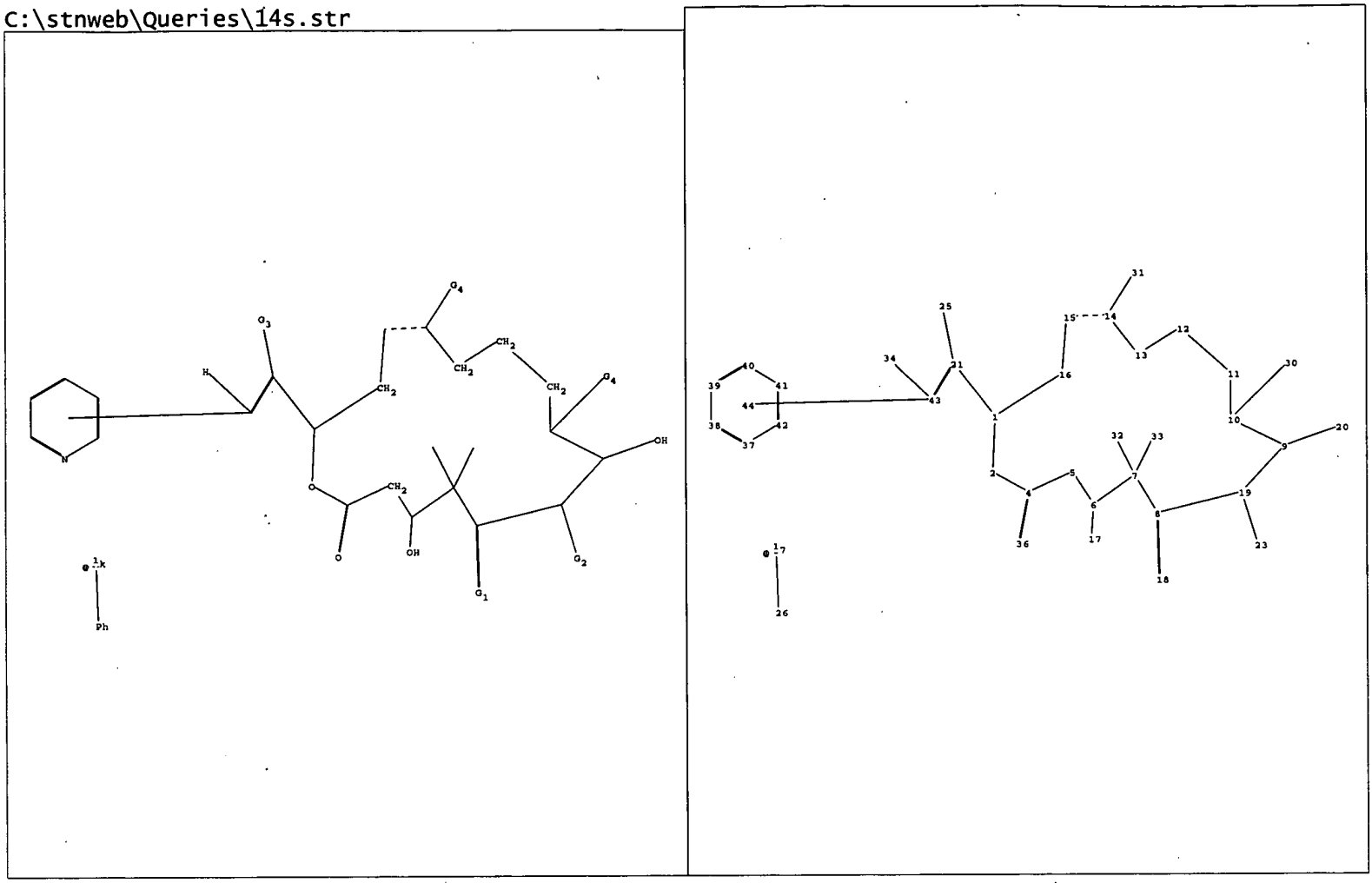

chain nodes :
17 18 20 21 23 25 26 27 30 31 32 33 34 36 43
ring nodes :
1 2 4 5 6 7 8 9 10 11 12 13 14 15 16 19 37 38 39 40 41 42
chain bonds :
1-21 4-36 6-17 7-33 7-32 8-18 9-20 10-30 14-31 19-23 21-25 21-43 26-27 34-43
ring bonds :
1-2 1-16 2-4 4-5 5-6 6-7 7-8 8-19 9-10 9-19 10-11 11-12 12-13 13-14 14-15
15-16 37-38 37-42 38-39 39-40 40-41 41-42
exact/norm bonds :
1-2 1-16 2-4 4-5 4-36 5-6 6-7 6-17 7-8 8-18 8-19 9-10 9-19 9-20 10-11 10-30
11-12 12-13 13-14 14-15 14-31 15-16 19-23 21-25 26-27
exact bonds :
1-21 7-33 7-32 21-43 34-43
normalized bonds :
37-38 37-42 38-39 39-40 40-41 41-42

G1:O,S

G2:CH3,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu

G3:H,Ak

G4:Ph,Ak,H,[*1]

G5:O,S

Match level :
1:Atom 2:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom
13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS 18:Atom 19:Atom 20:CLASS 21:CLASS
23:CLASS 25:CLASS 26:CLASS 27:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS
36:CLASS 37:Atom 38:Atom 39:Atom 40:Atom 41:Atom 42:CLASS 43:CLASS 44:CLASS

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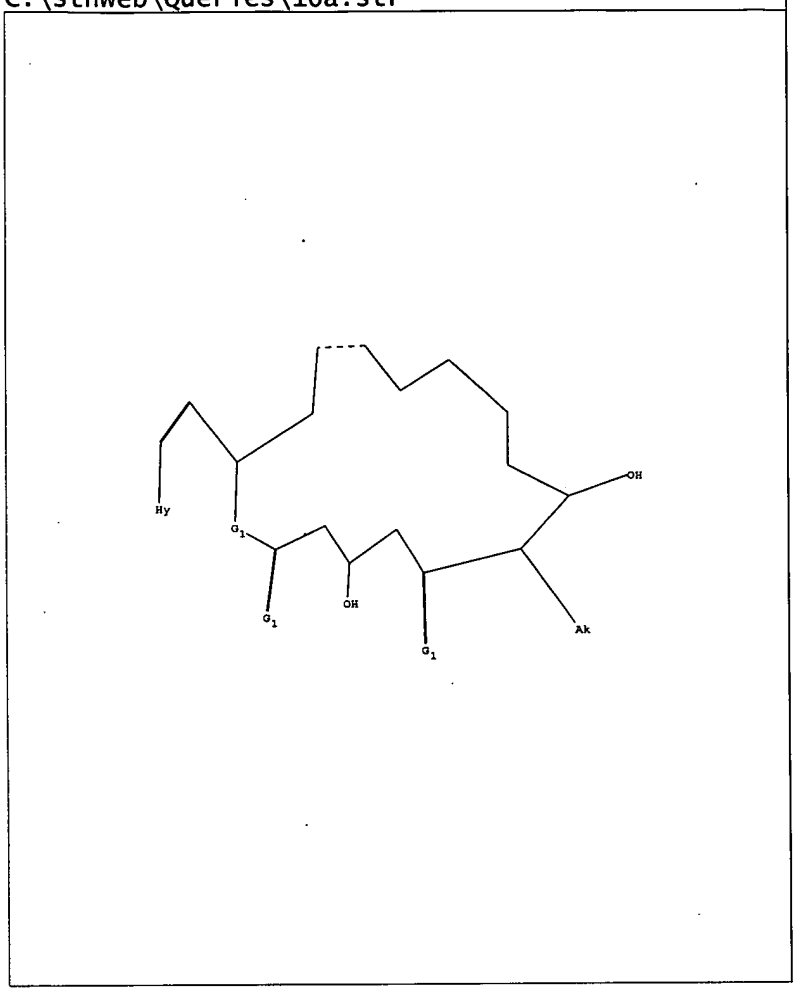


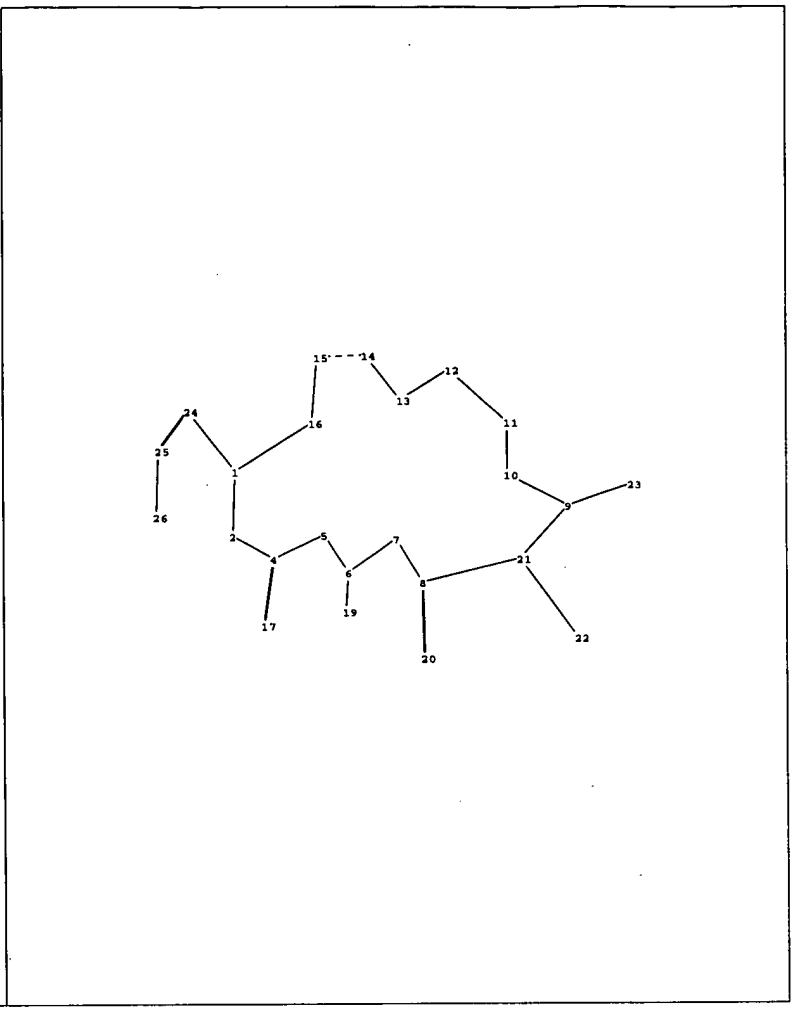


chain nodes :
17 19 20 22 23 24 25 26
ring nodes :
1 2 4 5 6 7 8 9 10 11 12 13 14 15 16 21
chain bonds :
1-24 4-17 6-19 8-20 9-23 21-22 24-25 25-26
ring bonds :
1-2 1-16 2-4 4-5 5-6 6-7 7-8 8-21 9-10 9-21 10-11 11-12 12-13 13-14 14-15
15-16
exact/norm bonds :
1-2 1-16 1-24 2-4 4-5 4-17 5-6 6-7 6-19 7-8 8-20 8-21 9-10 9-21 9-23 10-11
11-12 12-13 13-14 14-15 15-16 21-22 24-25 25-26

G1:O,S

Match level :
1:Atom 2:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom
13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 19:CLASS 20:Atom 21:Atom 22:CLASS 23:CLASS
24:CLASS 25:CLASS 26:Atom

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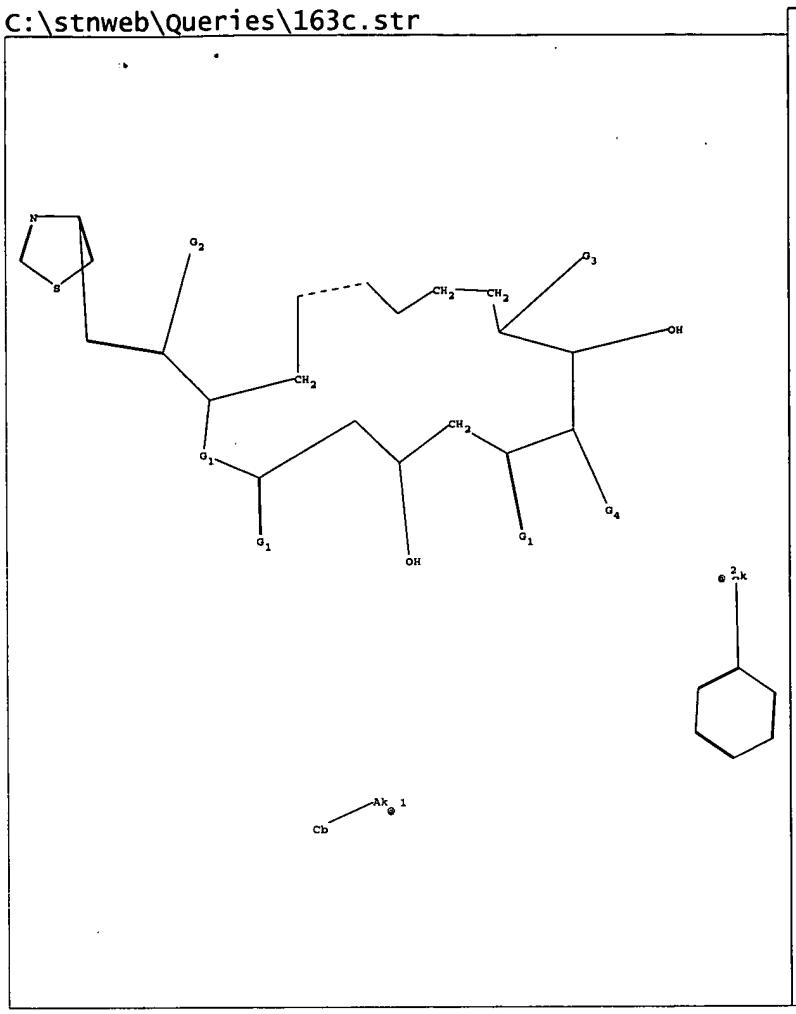

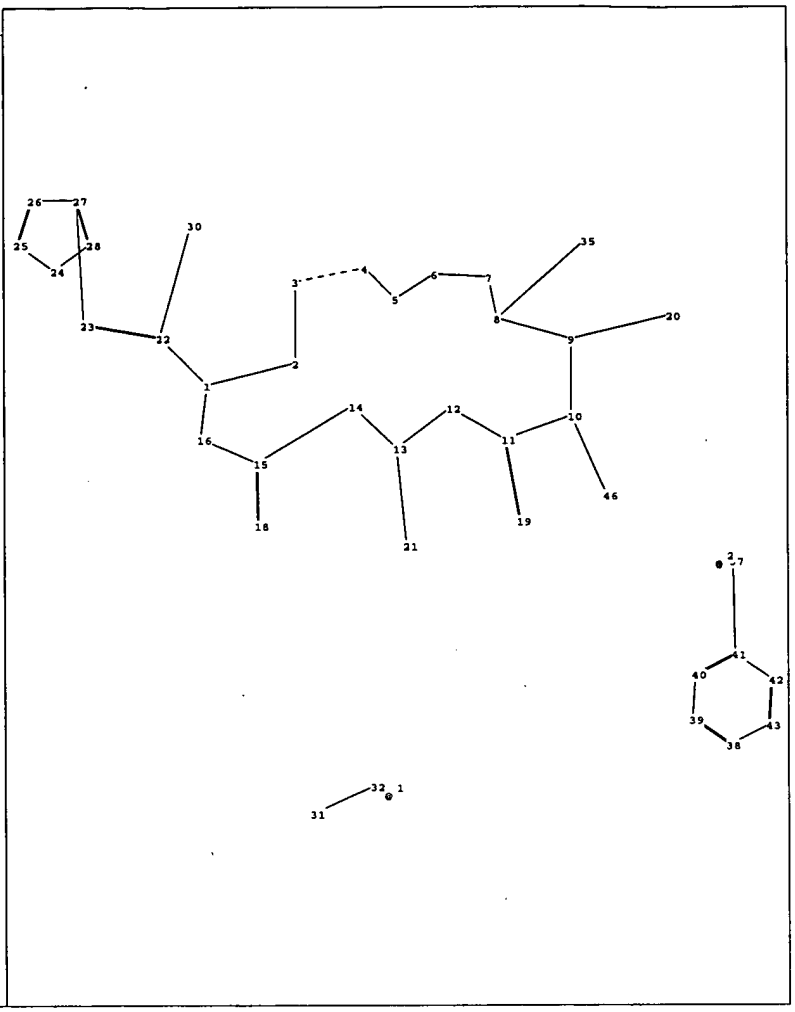

chain nodes :
18 19 20 21 22 23 30 31 32 35 37 46
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 24 25 26 27 28 38 39 40 41
42 43
chain bonds :
1-22 8-35 9-20 10-46 11-19 13-21 15-18 22-23 22-30 23-27 31-32 37-41
ring bonds :
1-2 1-16 2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12 12-13 13-14 14-15
15-16 24-25 24-28 25-26 26-27 27-28 38-39 38-43 39-40 40-41 41-42 42-43
exact/norm bonds :
1-2 1-16 1-22 2-3 3-4 4-5 5-6 6-7 7-8 8-9 8-35 9-10 9-20 10-11 10-46 11-12
11-19 12-13 13-14 13-21 14-15 15-16 15-18 22-23 22-30 23-27 24-25 24-28 25-26
26-27 27-28 31-32 37-41
normalized bonds :
38-39 38-43 39-40 40-41 41-42 42-43
isolated ring systems :
containing 24 :

G1:O,S

G2:H,Ak

G3:H,Cb,Ak,[*1]

G4:Ak,[*2]

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 18:Atom 19:Atom 20:CLASS 21:CLASS 22:CLASS
23:CLASS 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 30:CLASS 31:Atom 32:CLASS
35:CLASS 37:CLASS 38:Atom 39:Atom 40:Atom 41:Atom 42:Atom 43:Atom 46:CLASS

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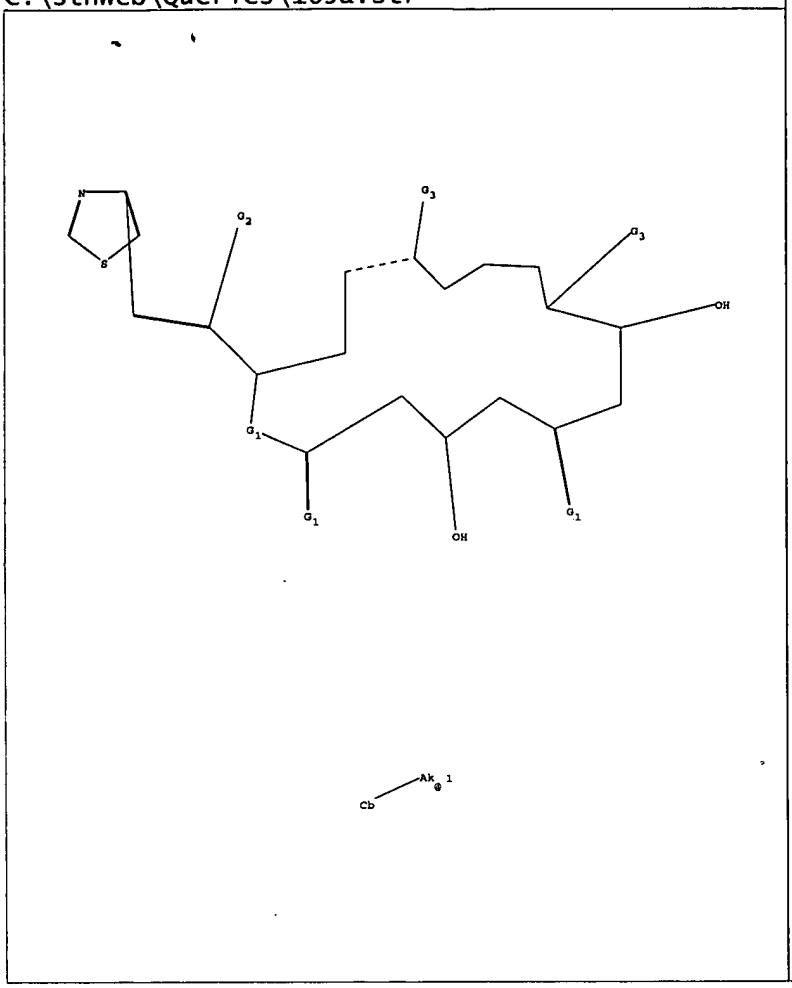


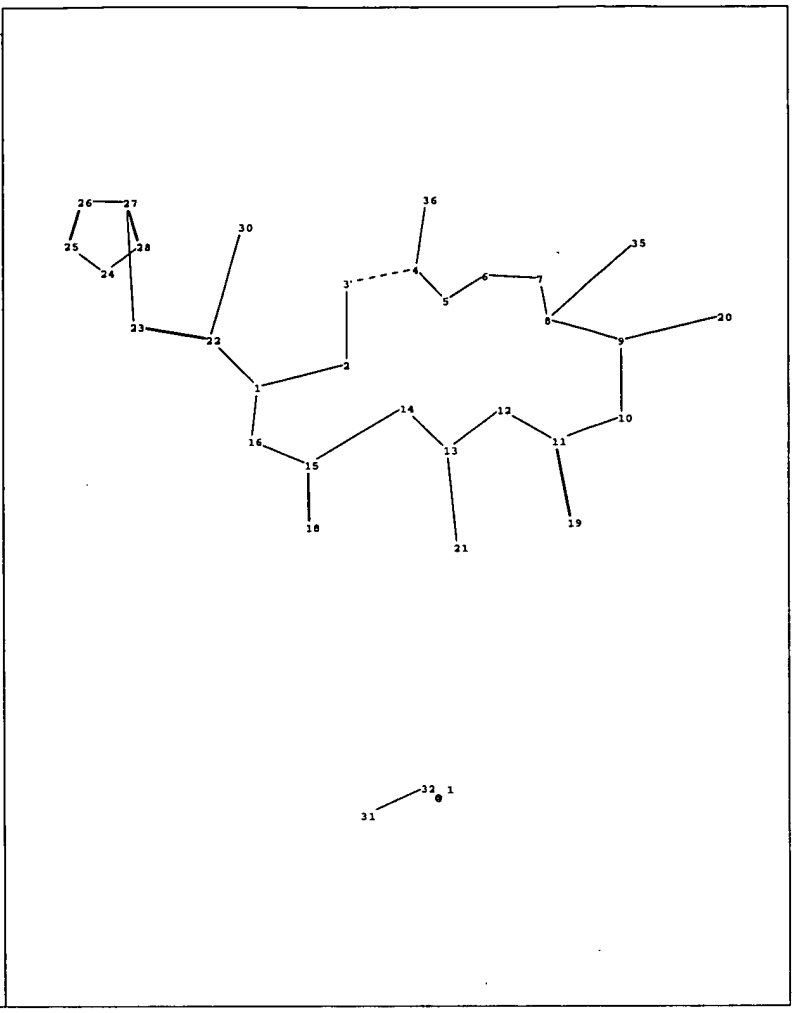


chain nodes :
18 19 20 21 22 23 30 31 32 35 36
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 24 25 26 27 28
chain bonds :
1-22 4-36 8-35 9-20 11-19 13-21 15-18 22-23 22-30 23-27 31-32
ring bonds :
1-2 1-16 2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12 12-13 13-14 14-15
15-16 24-25 24-28 25-26 26-27 27-28
exact/norm bonds :
1-2 1-16 1-22 2-3 3-4 4-5 4-36 5-6 6-7 7-8 8-9 8-35 9-10 9-20 10-11 11-12
11-19 12-13 13-14 13-21 14-15 15-16 15-18 22-23 22-30 23-27 24-25 24-28 25-26
26-27 27-28 31-32
isolated ring systems :
containing 24 :

G1:O,S

G2:H,Ak

G3:H,Cb,Ak,[*1]

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 18:Atom 19:Atom 20:CLASS 21:CLASS 22:CLASS
23:CLASS 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 30:CLASS 31:Atom 32:CLASS
35:CLASS 36:CLASS

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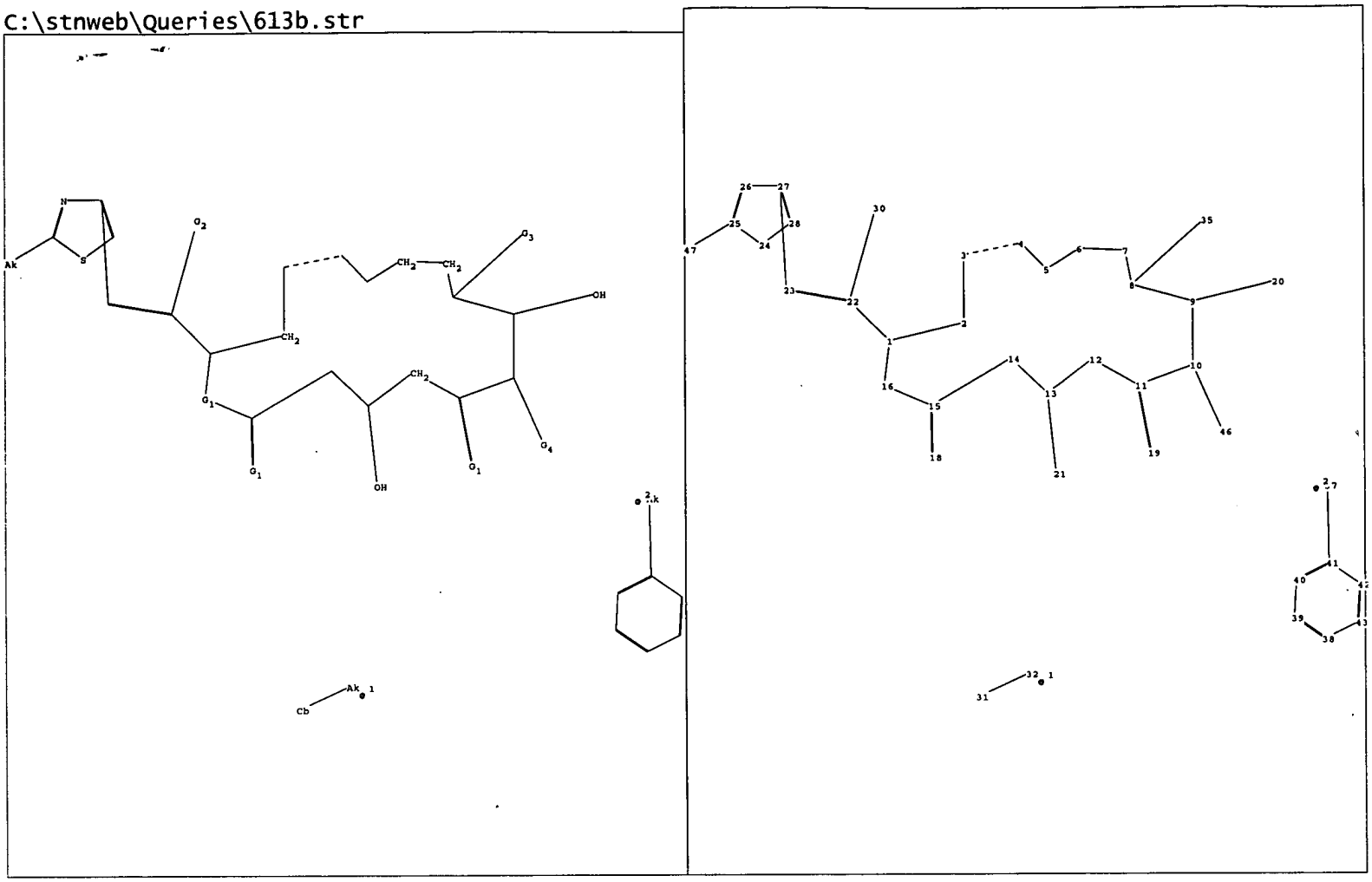

chain nodes :
18 19 20 21 22 23 30 31 32 35 37 46 47
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 24 25 26 27 28 38 39 40 41 42 43
chain bonds :
1-22 8-35 9-20 10-46 11-19 13-21 15-18 22-23 22-30 23-27 25-47 31-32 37-41
ring bonds :
1-2 1-16 2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12 12-13 13-14 14-15
15-16 24-25 24-28 25-26 26-27 27-28 38-39 38-43 39-40 40-41 41-42 42-43
exact/norm bonds :
1-2 1-16 1-22 2-3 3-4 4-5 5-6 6-7 7-8 8-9 8-35 9-10 9-20 10-11 10-46 11-12
11-19 12-13 13-14 13-21 14-15 15-16 15-18 22-23 22-30 23-27 24-25 24-28 25-26
25-47 26-27 27-28 31-32 37-41
normalized bonds :
38-39 38-43 39-40 40-41 41-42 42-43
isolated ring systems :
containing 24 :

G1:O,S

G2:H,Ak

G3:H,Cb,Ak,[*1]

G4:Ak,[*2]

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 18:Atom 19:Atom 20:CLASS 21:CLASS 22:CLASS
23:CLASS 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 30:CLASS 31:Atom 32:CLASS
35:CLASS 37:CLASS 38:Atom 39:Atom 40:Atom 41:Atom 42:Atom 43:Atom 46:CLASS
47:CLASS